

Alcohol, Drug Abuse, and Mental Health Administration National Institute of Mental Health Intramural Research Program Bethesda MD 20892

January 14, 1993

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Dear Ken:

Thanks for your letter of December 13, 1992. I have been slow in responding because I am trying to complete two huge chapters for a textbook of Human Physiology, which were due at the end of 1992. I have not yet sent them out, but they are close to being completed.

In reference to your question about my statement "All units must be in molecular concentrations of methylglucose and glucose", I mean that they should be in units of mmoles/liter or mM (or equivalents), in order to get your final answer for V_T and K_T in molecular units. If you use only radioactive units, then your final units will relate only to the transport of radioactivity, which is not really what you want. It is very simple for you to convert your counting rates or DPM into molecular units by using the original specific activity of methylglucose. The supplier usually supplies you with information on μ Ci/ μ mol or mCi/mmol. If you divide μ Ci/ml by μ Ci/ μ mole, you will come out with mol/ml. I hope this clarifies this issue for you. If not, do not hesitate to ask.

We are all making our plans for the trip to Japan. When they are completed, we will let you know. At the present time it is almost certain that my wife and son will accompany me and we will come to Tokyo for several days after the meeting in Sendai.

With best regards.

Sincerely, yours,

Louis Sokoloff, M.D.

Chief, Laboratory of Cerebral Metabolism, National Institute

of Mental Health